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**D-51465 Bergisch Gladbach (DE)**(54) **Ionically conductive organosiloxane polymer compositions.**

(57) The ionically conductive compositions of this invention comprise the ionic pair  $(-\text{SO}_3)_n\text{M}^{n+}$  bonded either to a crosslinked polymer containing organosiloxane units or to a finely divided solid that is immobilized within said composition, where the sulfur atom of said ionic pair is bonded by means of a divalent hydrocarbon radical that optionally contains at least one ether (-O-) linkage, and where M is a metal from Group I or Group II of the periodic table of the elements and  $n$  represents the valence of M. If the polymer does not contain oxyalkylene units the composition contains a non-aqueous electrolyte.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 93 11 2208

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL.5)
A	US-A-4 888 257 (S.C.NARANG) * the whole document * ---	1-9	H01B1/12 H01M6/18
A	EP-A-0 362 593 (TORAY SILICONE) * page 4, line 30 - line 33; claims 1,2 * ---	1-9	
A,P	POLYMERS FOR ADVANCED TECHNOLOGIES vol. 4, no. 2/3, 1993, CHICHESTER, SUSSEX, GB pages 80 - 84 J.NI & AL 'synthesis of a novel polysiloxane-based polymer electrolyte and its ionic conductivity' * the whole document * ---	1-9	
A	JOURNAL ELECTROCHEM.SOC. vol. 137, no. 1, January 1990, USA pages 29- - 34 Z. OGUMI & AL 'ionically conductive thin polymer films prepared by plasma polymerization' * the whole document * ---	1-9	
A	DATABASE WPI Section Ch, Derwent Publications Ltd., London, GB; Class A85, AN 90-302911 & JP-A-2 215 836 (FUJI PHOTO) 28 March 1990 * abstract * -----	1,3	HO1B HO1M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 February 1994	Examiner Drouot, M-C
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div><div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- &amp; : member of the same patent family, corresponding document</div></div>			